

Mathematics Of Surfaces 10th Ima International Conference Leeds Uk September 15 17 2003 Proceedings Lecture Notes In Computer Science

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AGUIRRE MALIK

Computer Analysis of Images and Patterns Cambridge University Press

This book constitutes the refereed proceedings of the 11th IMA International Conference on the Mathematics of Surfaces, held in Loughborough, UK in September 2005. The 28 revised full papers presented were carefully reviewed and selected from numerous submissions. Among the topics addressed are Voronoi diagrams, linear systems, curvatures on meshes, approximate parameterization, condition numbers, pythagorean hodographs, artifacts in B-spline surfaces, Bézier surfaces of minimal energy, line subdivision, subdivision surfaces, level sets and symmetry, the topology of algebraic surfaces, embedding graphs in manifolds, recovery of 3D shape from shading, finding optimal feedrates for machining, and improving of range data.

The Mathematics of Surfaces VII Springer Science & Business Media

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Mathematics in Industrial Problems Springer Science & Business Media

This is the tenth volume in the series "Mathematics in Industrial Problems." The motivation for these volumes is to foster interaction between Industry and Mathematics at the "grass roots level;" that is, at the level of specific problems. These problems come from industry: they arise from models developed by the

industrial scientists in ventures directed at the manufacture of new or improved products. At the same time, these problems have the potential for mathematical challenge and novelty. To identify such problems, I have visited industries and had discussions with their scientists. Some of the scientists have subsequently presented their problems in the IMA Seminar on Industrial Problems. The book is based on the seminar presentations and on questions raised in subsequent discussions. Each chapter is devoted to one of the talks and is self contained. The chapters usually provide references to the mathematical literature and a list of open problems which are of interest to the industrial scientists. For some problems a partial solution is indicated briefly. The last chapter of the book contains a short description of solutions to some of the problems raised in the previous volume, as well as references to papers in which such solutions have been published. The speakers in the Seminar on Industrial Problems have given us at the IMA hours of delight and discovery.

Referativnyi zhurnal Thomas Telford

This book constitutes the refereed proceedings of the 10th International Conference on Advances in Brain Inspired Cognitive Systems, BICS 2019, held in Guangzhou, China, in July 2019. The 57 papers presented in this volume were carefully reviewed and selected from 129 submissions. The papers are organized in topical sections named: neural computation; biologically inspired systems; image recognition: detection, tracking and classification; and data analysis and natural language processing.

Euclid's Elements Springer Science & Business Media

The tension structures discussed in this book are predominantly roofing forms created from pre-stressed cable nets, cable trusses, and continuous membranes (fabric structures). A unique feature in their design is "form-finding" - an interactive process of defining the shape of a structure under tension. The book discusses the role of stable minimal surfaces (minimum energy forms occurring in natural objects, such as soap films) in finding optimal shapes of membrane and cable structures. The discussion of form-finding is extended to structural forms whose shape is supposedly known, such as suspension bridge cables.

American Book Publishing Record Springer

The contributions in this proceedings volume offer a new perspective on the mathematical ties between France and Italy, and reveal how mathematical developments in these two countries affected one another. The focus is above all on the Peninsula's influence on French mathematicians, counterbalancing the historically predominant perception that

French mathematics was a model for Italian mathematicians. In the process, the book details a subtle network of relations between the two countries, where mathematical exchanges fit into the changing and evolving framework of Italian political and academic structures. It reconsiders the issue of nationalities in all of its complexity, an aspect often neglected in research on the history of mathematics. The works in this volume are selected contributions from a conference held in Lille and Lens (France) in November 2013 on Images of Italian Mathematics in France from Risorgimento to Fascism. The authors include respected historians of mathematics, philosophers of science, historians, and specialists for Italy and intellectual relations, ensuring the book will be of great interest to their peers.

Proceedings of the London Mathematical Society Springer Nature

This book constitutes the refereed proceedings of the 10th IMA International Conference on the Mathematics of Surfaces, held in Leeds, UK in September 2003. The 25 revised full papers presented were carefully reviewed and selected from numerous submissions. Among the topics addressed are triangulated surface parameterization, bifurcation structures, control vertex computation, polyhedral surfaces, watermarking 3D polygonal meshes, subdivision surfaces, surface reconstruction, vector transport, shape from shading, surface height recovery, algebraic surfaces, box splines, the Plateau-Bézier problem, spline geometry, generative geometry, manifold representation, affine arithmetic, and PDE surfaces.

Education Outlook Courier Corporation

This book constitutes the refereed proceedings of the 10th International Conference on Computer Analysis of Images and Patterns, CAIP 2003, held in Groningen, The Netherlands in August 2003. The 94 revised papers presented were carefully reviewed and selected from 160 submissions. The papers are organized in topical sections on analysis and understanding, video analysis, segmentation, shape, classification, face recognition, interpolation and spatial transformations, and filtering.

Differential Geometry Information Geometers, Limited
 "Papers presented to J. E. Littlewood on his 80th birthday" issued as 3d ser., v. 14 A, 1965.

The Mathematics of Surfaces II Wentworth Press

This volume contains revised papers that were presented at the international workshop entitled Computational Methods for Algebraic Spline Surfaces ("COMPASS"), which was held from September 29 to October 3, 2003, at Schloß Weinberg, Kefermarkt (Austria). The workshop was mainly devoted to

approximate algebraic geometry and its applications. The organizers wanted to emphasize the novel idea of approximate implicitization, that has strengthened the existing link between CAD / CAGD (Computer Aided Geometric Design) and classical algebraic geometry. The existing methods for exact implicitization (i. e. , for conversion from the parametric to an implicit representation of a curve or surface) require exact arithmetic and are too slow and too expensive for industrial use. Thus the duality of an implicit representation and a parametric representation is only used for low degree algebraic surfaces such as planes, spheres, cylinders, cones and toroidal surfaces. On the other hand, this duality is a very useful tool for developing efficient algorithms. Approximate implicitization makes this duality available for general curves and surfaces. The traditional exact implicitization of parametric surfaces produce global representations, which are exact everywhere. The surface patches used in CAD, however, are always defined within a small box only; they are obtained for a bounded parameter domain (typically a rectangle, or - in the case of "trimmed" surface patches - a subset of a rectangle). Consequently, a globally exact representation is not really needed in practice.

Mathematics of Surfaces Springer Science & Business Media
An introductory textbook on the differential geometry of curves and surfaces in 3-dimensional Euclidean space, presented in its simplest, most essential form. With problems and solutions. Includes 99 illustrations.

U.S. Government Research Reports Oxford University Press, USA
Annotation. "Ever since architects dreamt of freely formed buildings, engineers have experienced difficulties in making these buildings structurally viable. The complexity lies in the relatively low-tech approach of the building industry seeking to exploit

proven technologies prior to introducing new ones, paired with an everlasting wish to minimize cost, in an environment where simple planar frames have long been dominant. This book presents principles and solutions."--Jacket

Proceedings of the IEEE Workshop on Mathematical Methods in Biomedical Image Analysis IOS Press

This book contains the proceedings of the second IMA conference on this topic which was held in Cardiff, September 1986. It follows on from the very successful meeting which gave rise to number 6 in this series - J.H. Gregory (editor): *The Mathematics of Surfaces*. The wide range of papers cover both the design of new surfaces, and the fitting of surfaces to existing data, primarily in an applied context including such areas as computer aided geometric design. Some of the contributions are quite theoretical - for example a discussion of how an approximation to surface can be achieved. Others are practical and show how such techniques can be applied in such diverse areas as dentistry and ship design. There are tutorial papers on some broad topics such as the presentation of relevant ideas in differential geometry to a wider audiences. Others are state of the art surveys and others present recent research. Many of the contributors are experts in the field with international reputations not only from the U.K. and other European countries but also from established teams in the United States.

Japanese Science and Technology, 1983-1984 Birkhäuser

Contains more than fifty carefully refereed and edited full-length papers on the theory and applications of mathematical methods arising out of the Fourth International Conference on Mathematical Methods in Computer Aided Geometric Design, held in Lillehammer, Norway, in July 1997.
Mathematics of Surfaces Springer

This volume constitutes the proceedings of the 5th International Conference on Computer Analysis of Images and Patterns (CAIP'93), held in Budapest, Hungary, in September 1993. Formerly, the events in this biennial conference series were thought as a forum where East European researchers and professionals from academia and industry had an opportunity to discuss their results and ideas with Western colleagues active in image processing and pattern recognition. Now, CAIP'93 has a much more international scope, and in the future these conferences will not any longer take place only in East European countries, but roam throughout whole Europe. Besides invited talks by Belikova, Gimelfarb, Haralick and Roska, the volume contains 114 contributions, either presented as lectures or posters and carefully selected by a highly competent international program committee from a total of some 230 submissions; thus the book gives a thorough survey on recent research results and their applications in image processing and pattern recognition. The proceedings is organized in 20 sections, for example on image data structures, image processing, edges and contours, Hough transforms and related methods, shape, motion, 3-D vision, character recognition and document processing, biomedical applications, industrial applications, and neural networks.

Computational Methods for Algebraic Spline Surfaces Springer Science & Business Media

An integrated package of powerful probabilistic tools and key applications in modern mathematical data science.

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